

FIG. 1

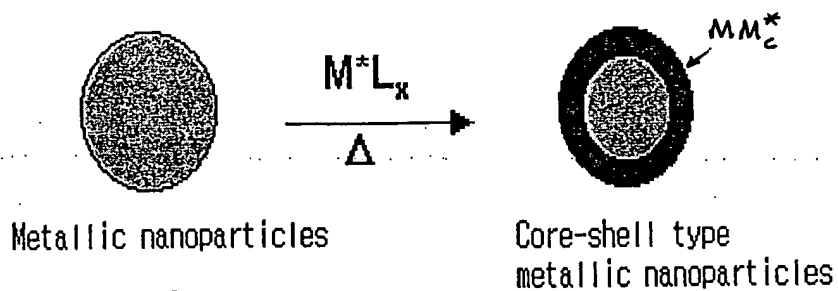
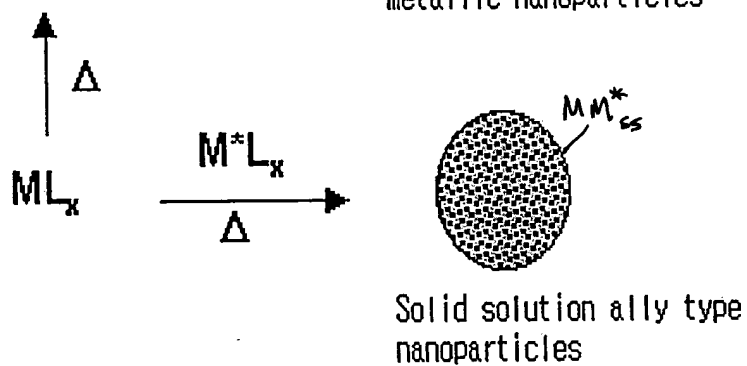


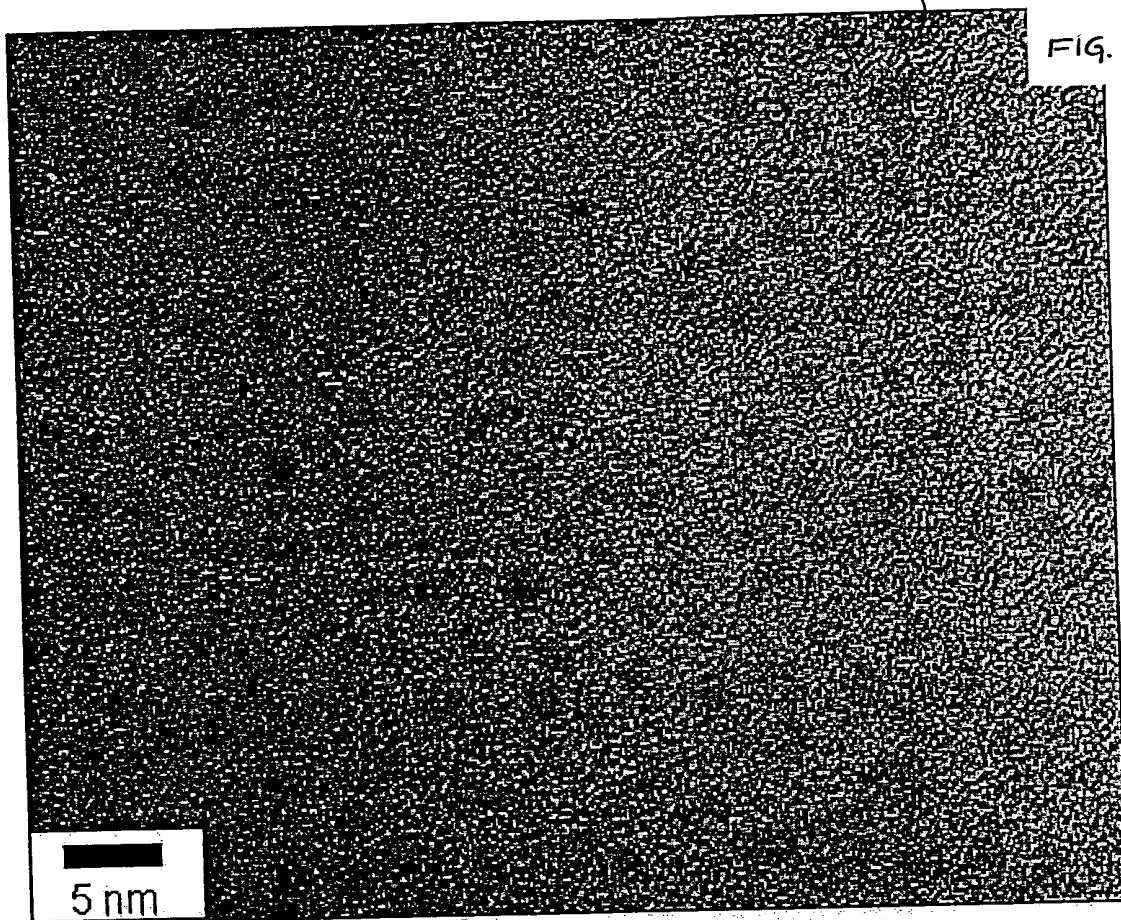
FIG. 2



2/10

$mm_c^*$

FIG. 3A



$mm_c^*$

FIG. 3B

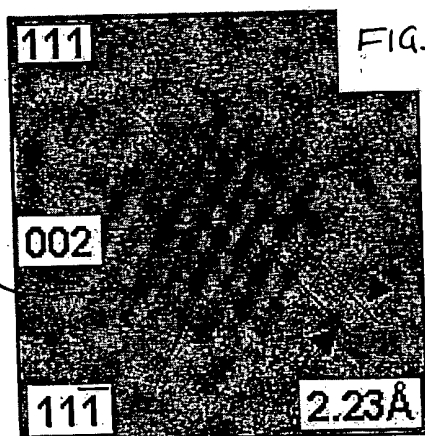
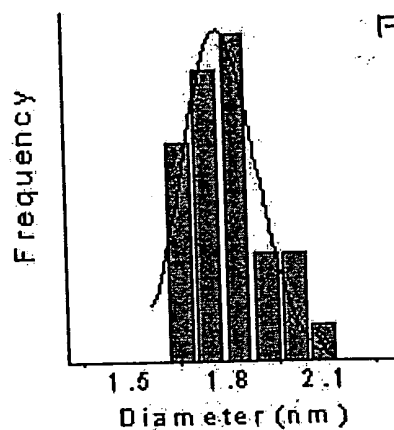


FIG. 4



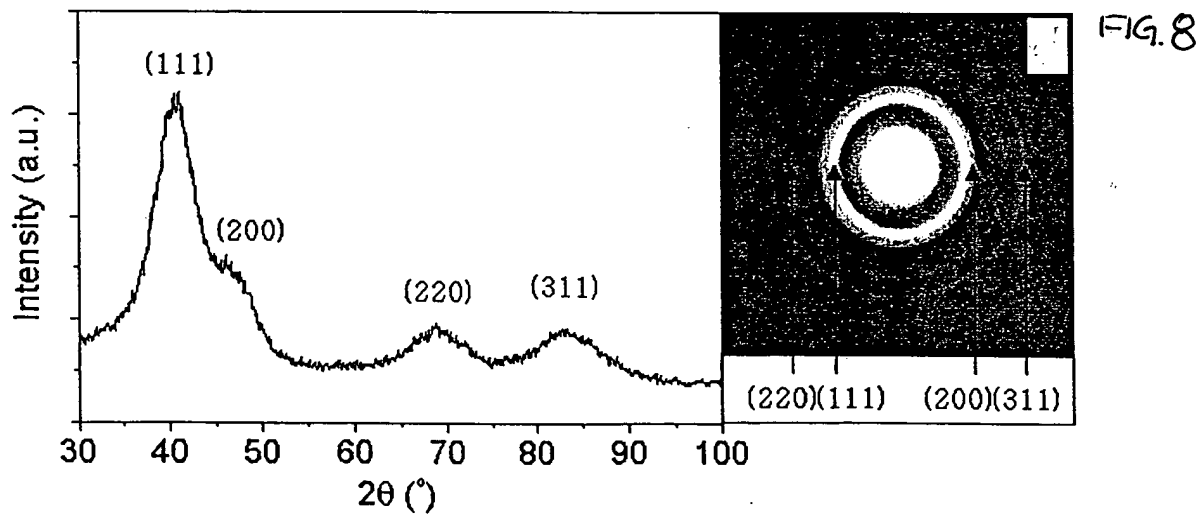
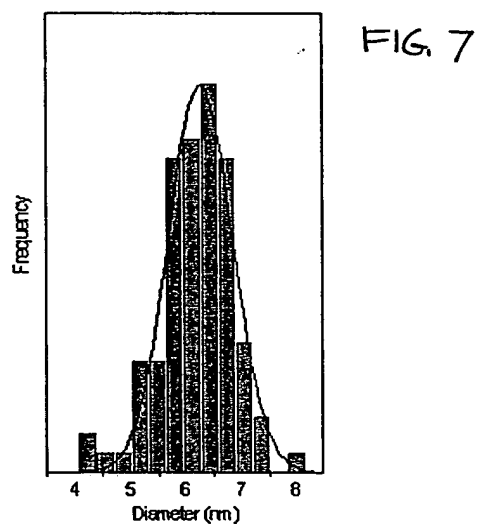
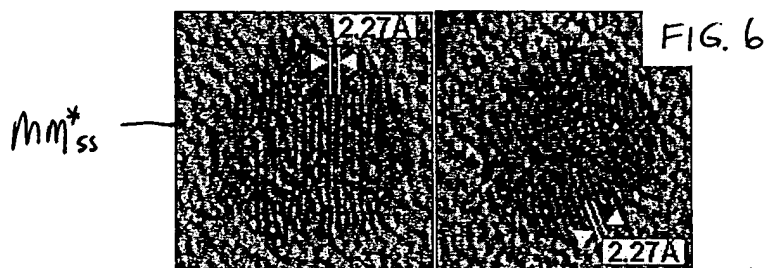
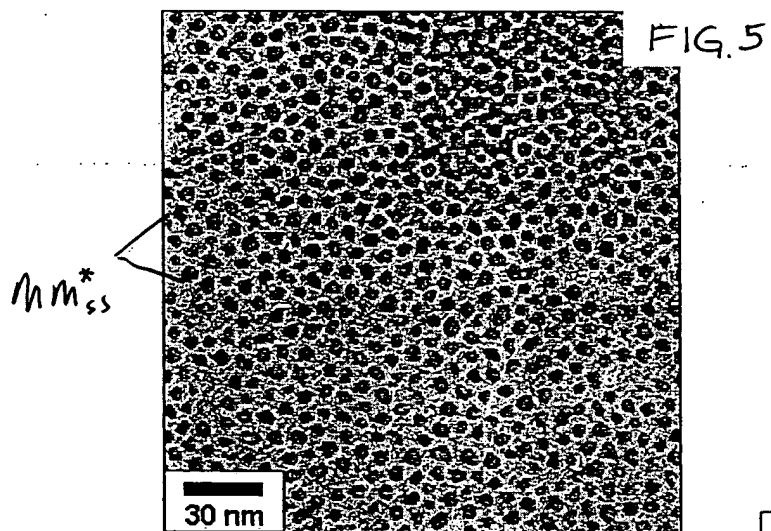


FIG. 9

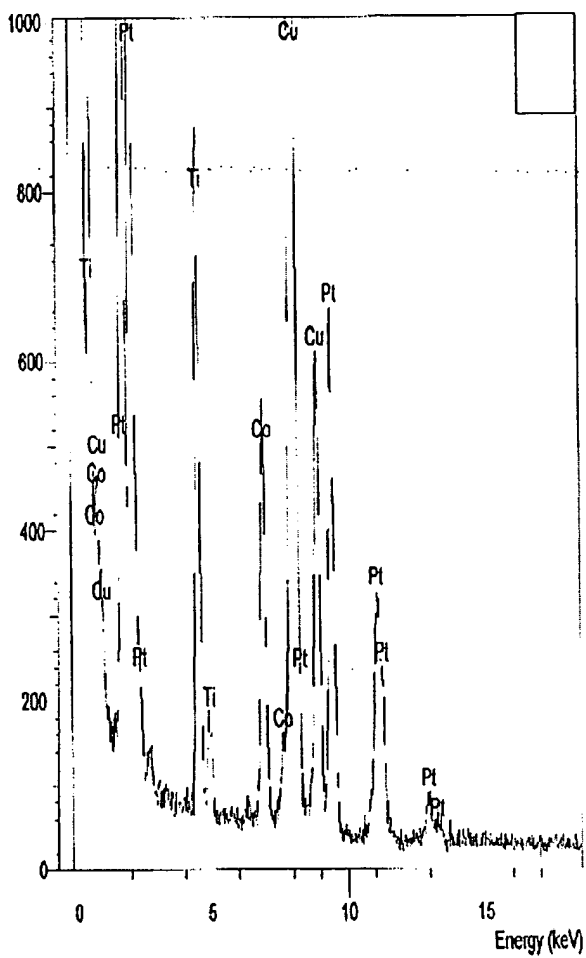
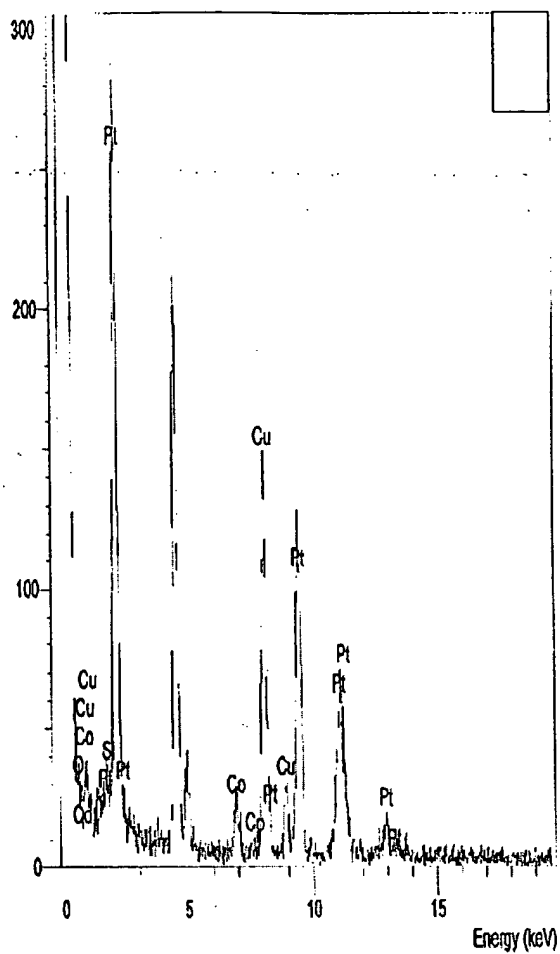


FIG. 10



5/10

FIG. 11

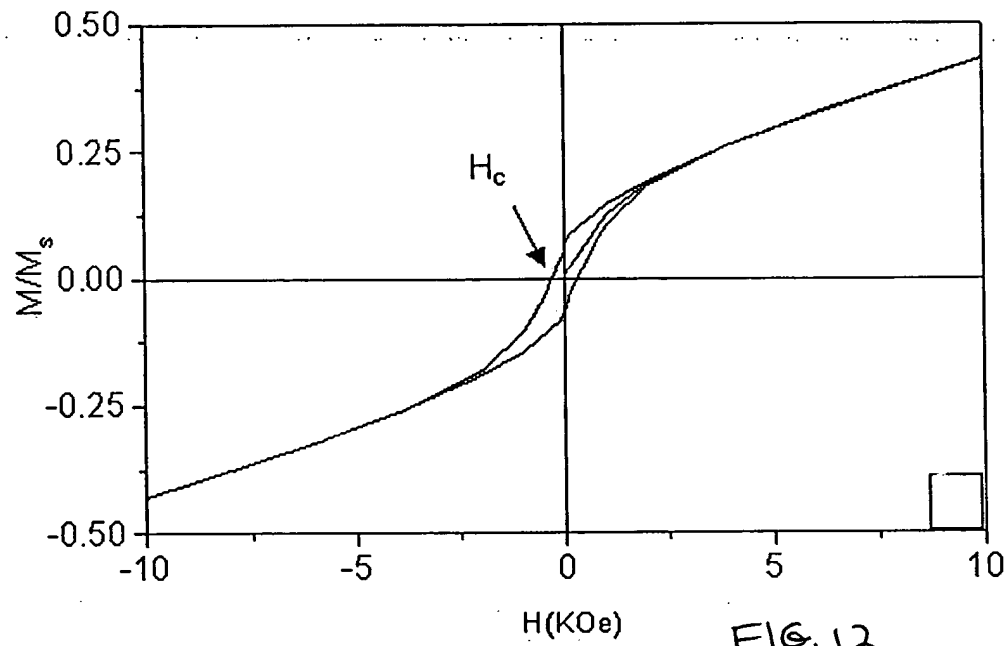
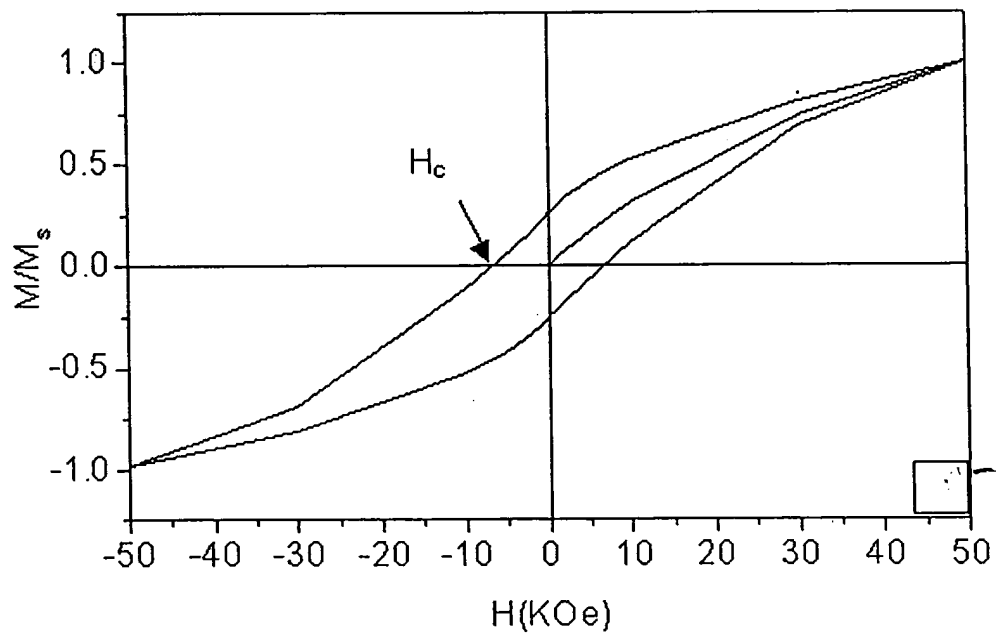


FIG. 12

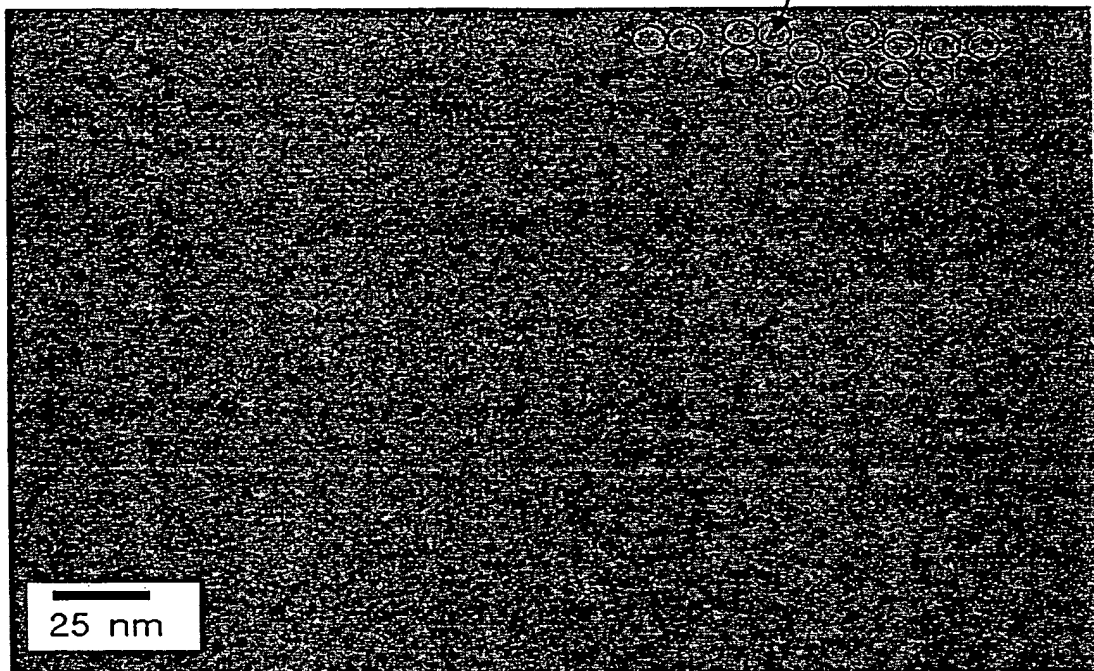


6/10

FIG. 13

Core-shell type cobalt-platinum nanoparticles

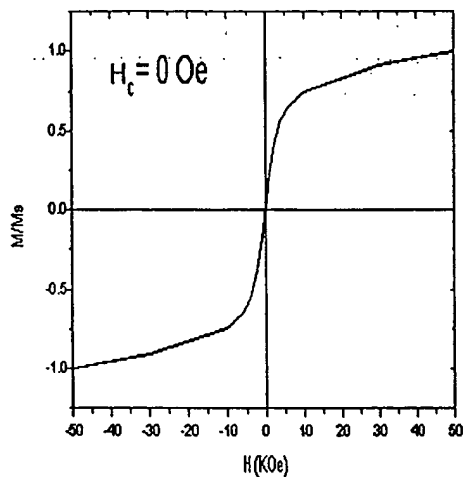
/ mm<sup>2</sup>



7/10

FIG. 14A

300 K



Core-shell type  
cobalt-platinum  
nanoparticles

700 °C  
12 hr  
Thermal  
treatment

$\text{Co}_1\text{Pt}_1$   
Solid solution alloy  
type cobalt-platinum  
nanoparticles

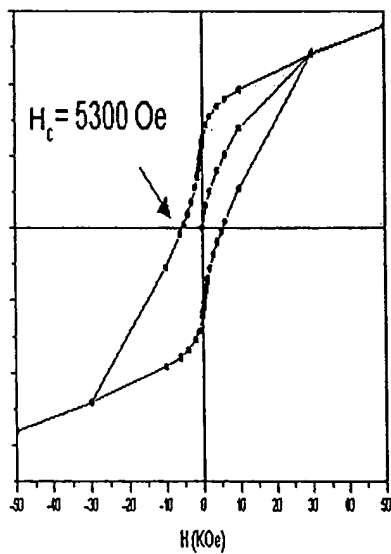


FIG. 14B

5 K

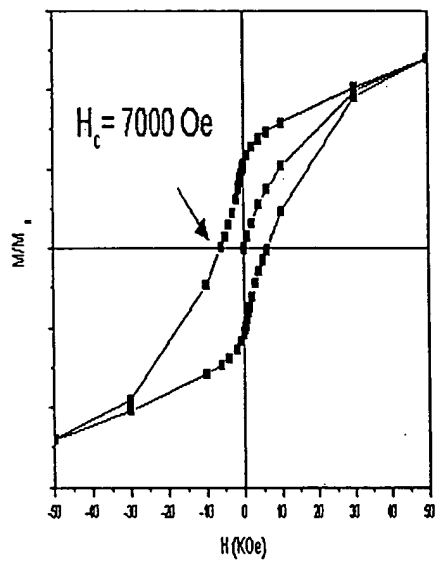
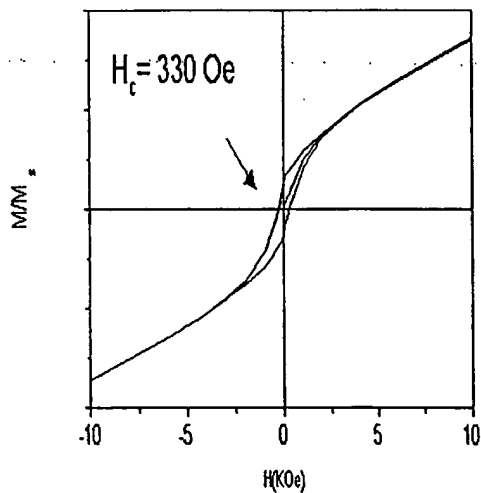


FIG. 15

100

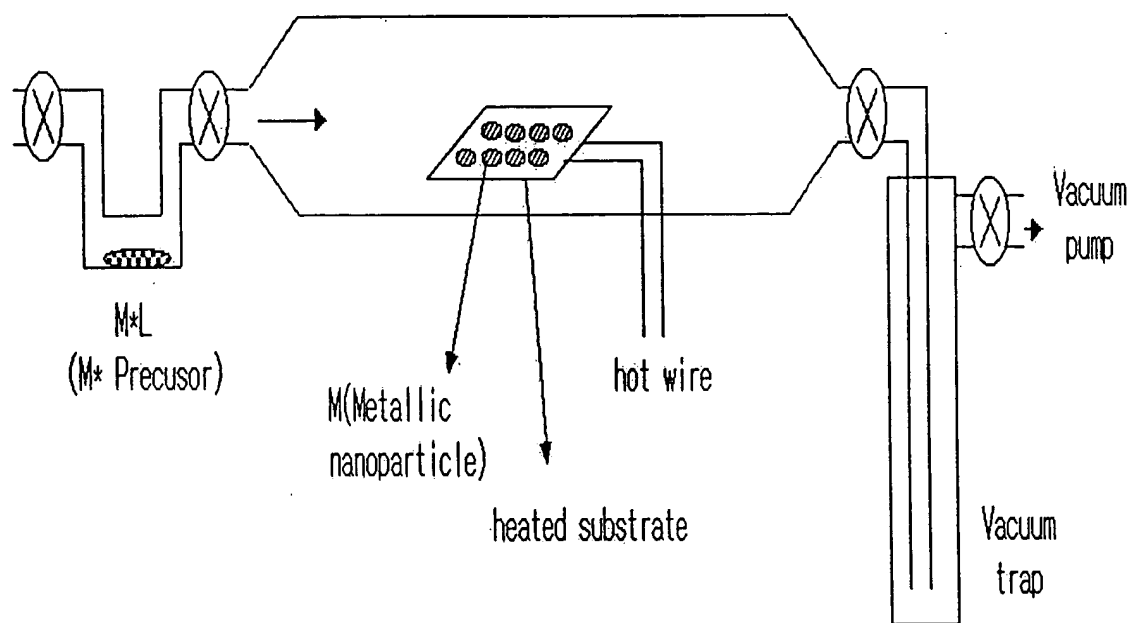
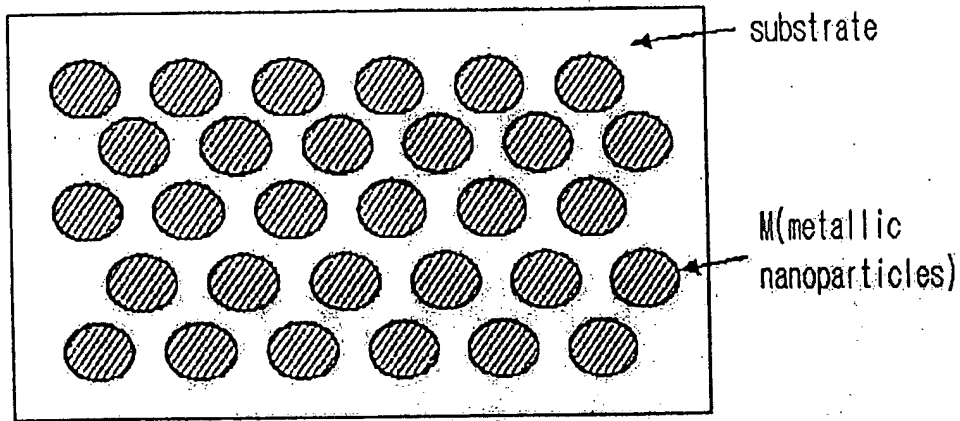
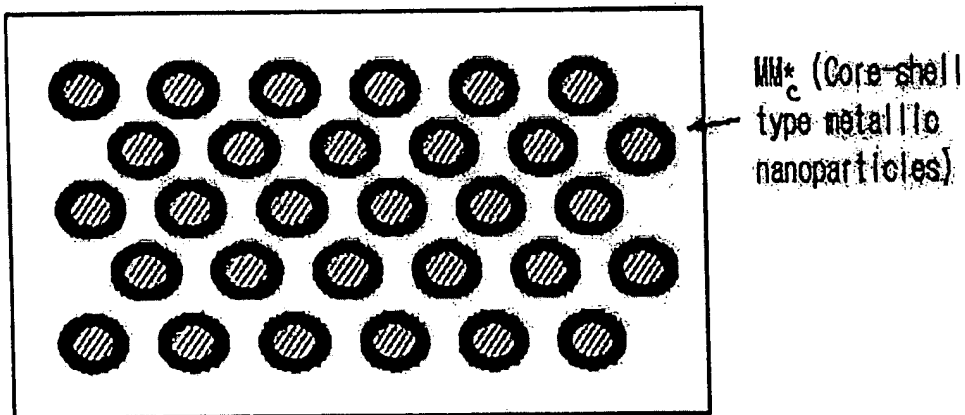




FIG 16



Chemical Vapor deposition for conducting  
the metallic transmetalation taking  
advantage of oxidation-reduction  
potential differences



10/10

FIG. 17

